



NATIONAL OPEN UNIVERSITY OF NIGERIA

**Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja
Faculty of Science**

DEPARTMENT OF BIOLOGICAL SCIENCES

2024 1 EXAMINATION

**COURSE CODE: BIO 310
COURSE TITLE: PROTOZOOLOGY
CREDIT UNIT: 2 UNITS
TIME ALLOWED: 2 HOURS**

INSTRUCTION: ANSWER QUESTION ONE AND ANY TWO OTHERS.

- 1a. Write an essay on the Ecology of *Naegleria fowleri*. 10marks
- b. Outline the Life Cycle of *Naegleria fowleri*. 10marks
- c. Outline the symptoms of malaria. 10marks

- 2a. Describe the features of the following parasites. 15
 - i. *Entamoeba gingivalis*. 5marks
 - ii. *Entamoeba moshkovskii*. 6marks
 - iii. *Entamoeba invadens*. 4marks
- b. Explain the Post-*Giardia* Lactose Intolerance. 5marks

- 3a. State the treatment and control of *Giardia*. 10marks
- 3b. Describe the symptoms and pathogenesis of *T. vaginalis*. 10marks

- 4a. Outline the distinctive feature of the Trichomonads. 10marks
- b. State the Phylogenetics of *Dientamoeba fragilis*. 10marks

- 5a. Explain the symptoms, diagnosis and treatment of *Dientamoeba*. 10marks
 - i. Symptoms. 5marks
 - ii. Diagnosis. 3marks
 - iii. Treatment. 2marks
- b. Describe *Cryptosporidium parvum* as a Parasite. 10marks